

Recombinant Swine, GM-CSF / Granulocyte-Macrophage Colony-Stimulating Factor, Animal Free & Carrier Free

Cat #: C-CYP148

Size: 5μg, 20μg

Shipping: Blue Ice

Product Overview

Granulocyte-macrophage colony- stimulating factor (GM-CSF), also known as colony-stimulating factor 2 (CSF2), is a monomeric glycoprotein secreted by macrophages, T cells, mast cells, natural killer cells, endothelial cells and fibroblasts that functions as a cytokine. GM-CSF also plays a role in embryonic development by functioning as an embryokine produced by reproductive tract.

Product Information

Source: Escherichia Coli.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: Measure by its ability to induce proliferation in TF-1 cells. The ED₅₀ for this effect is < 3 ng/mL.

Endotoxin: <0.1 EU per 1 μg of the protein by the LAL method.

Amino acid sequence:

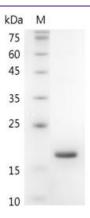
APTRPPSPVTRPWQHVDAIKEALSLLNNSNDTAAVMNETVDVVCEMFDPQEPTCVQTRLNLYKQGLRGSLTRLKS

PLTLLAKHYEQHCPLTEETSCETQSITFKSFKDSLNKFLFTIPFDCWGPVK with polyhistidine tag at the C-terminus

Formulation: Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 7.4.







SDS-PAGE analysis of recombinant swine GM-CSF

Usage Method

- 1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
- 2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H_2O . Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
- 3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
- 4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 μ g/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.

